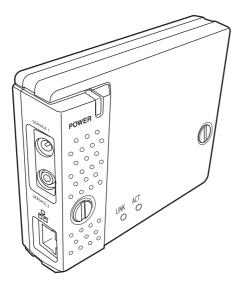


POA-LN02



LD-Net Organizer

Network Capture 3

Network Viewer 3

Network Communication

OWNER'S MANUAL



Initial setting



Power & Status



PC Adj.



Control



Setting



E-mail setting



Save



Network



Multi control



Timer



Information



SNMP setting

Compliance

Federal Communication Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if



not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Model Numbers : POA-LN02 Trade Name : Sanyo

Responsible party : SANYO FISHER COMPANY

Address : 21605 Plummer Street, Chatsworth, California 91311

Telephone No. : (818)998-7322



CAUTION ON USE IN NETWORK

- When you receive an alert e-mail from the monitor, you must check the monitor immediately. Fire or accident may result if the monitor is used in an abnormal condition.
- When you install the monitor at remote location and use it through the network, you must perform the safety inspections periodically. In this case you must pay attention to the change of environment in which you installed the monitor. It may cause fire or an accident depending on the change of environment.

CAUTION

SANYO Electric Co., Ltd. assumes no responsibility for the loss or damage of data or damage of the computer caused by using this product.



The CE Mark is a Directive conformity mark of the European Community (EC).

NOTES ON Lithium Battery (CALIFORNIA USA ONLY)

This product uses a Lithium Battery which contains Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

Notas acerca de pilas de litio (SOLO PARA CALIFORNIA, EE.UU.)

Este producto usa una pila de litio que contiene el material perclorato – puede ser necesario una manipulación especial.

Consulte la página www.dtsc.ca.gov/hazardouswaste/perchlorate

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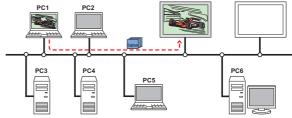
Chapter 1 **Preparation**

Describes features and operating environment of this product.

Features

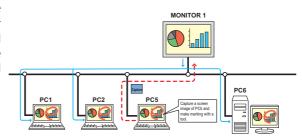
Real Time Capture function (\$\infty\$p.68)

To display the screen image of the computer by the monitor through the network in real time.



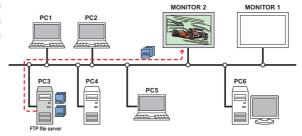
Network Communication function (@p.71)

To communicate by sharing the captured image of a computer with multiple computers and a monitor. User can draw the text and figure on the captured image by using a drawing tool.



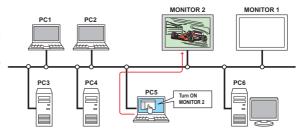
Network Viewer function (@p.81)

To acquire the JPEG image data from the file servers placed in the network and display them by the monitor.



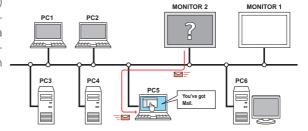
Web Management function (☞p.45)

With this function, you can check monitor functions such as power status, input mode, signal condition, etc. through the network by using the web browser installed on your computer.



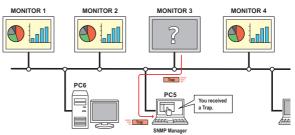
E-mail Alert function (p.38)

The monitor (Network Unit) sends messages to the registered e-mail addresses when a internal temperature abnormality or power failure occurs with the monitor.



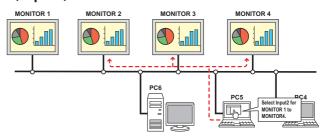
SNMP Agent function (\$\infty\$p.42)

To send the information of the monitor to the SNMP manager. Enables you to manage the monitor condition with the supplied SNMP manager software.



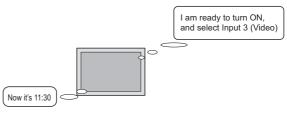
Multi-control function (☞p.59)

A single computer can control and set up the multiple monitors at the same time.



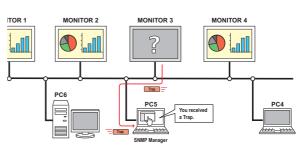
Automatic On/Off using Clock function (@p.55)

Automatically turn on or off the monitors at specified date/day and time by using the clock function



SNMP Manager function (refer to the separated booklet)

A function to manage the condition of monitors in the network by using the SNMP protocol. The managing computer needs to provide an SNMP managing software. Refer to the owner's manual of the "PJ Network Manager" supplied separately for further details.



Operating environment of LD-Net Organizer

To perform the managing and setting of the monitor by using this product, the environment described below is required.

		Standard mode
Operating System		Windows 98, Windows Me, Windows NT4.0SP6 Windows 2000, Windows XP
Comp	Recommended CPU	Higher than Pentium III 900MHz
	Memory	64MB (Minimum)/ 128MB or more(Recommended) 128MB or more for WindowsXP
oute	HDD free area	100MB or more
r en	Drive equipment	CD-ROM drive
Computer environment	Display setting of computer	Support one of following resolutions; VGA (640 x 480), SVGA(800 x 600), XGA(1,024 x 768) Number of colors: Either of 16 bit (65,536 color 24/32 bit (16,77 million colors))
	Network card	The computer must provide a 10Base-T or 100Base-TX network card.
Web Browser*		Internet Explorer version 5.0, 5.5 or 6.0 Netscape Navigator version6.2, 7.0 or 7.1 * Used to control and set up the monitor. The layout of pages in the browser may slightly differ from each type of application or operating system you use.
Plug-Ins		Adobe Flash Player version 6,0,79,0(6.0r79) or later
Internet Mailer*		- Microsoft Outlook - Microsoft Outlook Express - Netscape Mail * Required the internet e-mail application software to receive an e-mail alert sent from this product. If you do not use the function E-mail Alert, this application is not required.
FTP Service *		- FTP server (Windows 2000 Professional or Windows XP Professional) * The FTP service provided with the Windows 2000 Professional or Windows XP Professional is required when using the Network Viewer function.

PDA restriction

The PDA can be used for the Light mode*1 only. The operating system of the PDA is PocketPC2002 or higher. The version of the Adobe Flash Player is 6,0,81,0 or higher.

^{*} For the operating environment of PJ Network Manager, refer to an owner's manual in the document CD-ROM.

^{*1} The "Light Mode" and "Standard Mode" will be explained on item "Display Mode" (p.30-32)

The limitation*1 of connection between this product and hub or computer

Suitable LAN cables are limited by length and type as follows;

Connection	Type of usable LAN cable	Maximum length
Network Unit - Hub	UTP Straight Cable with category 3 or 5 *2	100m
Network Unit - Computer	UTP Cross Cable with category 3 or 5*2	100m

^{*1} There may be other limitations depending on your network environment or LAN specification. Please consult your network administrator for further details.

Before use

Package contains

The package contains following items. Check each item as you unpack the package. If you have any of the following items missing, contact the sales dealer.

	☐ Network unit	1 piece
and som f	☐ Quick Setup Guide English	1 piece
	☐ Software CD-ROM Network Viewer & Capture 3 software PJ Network Manager software	1 piece
	☐ Document CD-ROM LD-Net Organizer Owner's Manual PJ Network Manager Owner's manual	1 piece

^{*2} Category of LAN cable indicates the cable quality. Normally, a cable with category 3 or 5 is used for 10Base-T network, and a cable with category 5 is used for 100Base-TX network.

Notice

Expression/Abbreviation

The word "monitor" found in this manual means "monitor provided with Network unit" unless otherwise noted.

The OS of the computer and the Web browser described in this manual is Windows XP Professional and Internet Explorer 6.0. In case of another OS or Web browser, some instruction procedures may differ from the actual operation depending on your computer environment.

Use of this manual

This manual does not provide the description of basic operation and functions for computer, web browser, monitor and network. For instructions about each piece of equipment or application software, please refer to the respective booklet.

Trademarks

Ethernet is a registered trademark of Xerox Corporation. Microsoft, Windows, Windows NT are registered trademarks of Microsoft Corporation. Internet Explorer is a registered trademark of Microsoft Corporation. Netscape Navigator and Netscape Communicator are trademarks or registered trademarks of Netscape Communications Corporation. JavaScript is a registered trademark of Sun Microsystems, Inc.

Other product or brand names in this manual are registered trademarks or trademarks of their respective owners.

- * Unauthorized use of a part or whole of the contents in this manual is prohibited.
- * The contents of this manual are subject to change without notice.

Basically this manual is described for Monitor set CE52LH1. Some instruction procedures may differ from the actual operation depending on the connected Monitor set type.

Chapter 2 Installation

Describes how to install the network unit and software, and configure the network.

Flow of installation

The following are instructions for attaching this product to the monitor and connecting it to the network. Please review the entire procedure to become familiar with it.

1 Function of the network unit (p.17)

Explains the name and functions of each part of the network unit.

2 Installation and network configuration (p.18-25)

- 1 Mount this product onto the monitor.
- $oldsymbol{2}$ Connect the LAN cable and join it to the network.
- $oldsymbol{3}$ Configure the network of the network unit.
- **4** Set the Network PIN code.

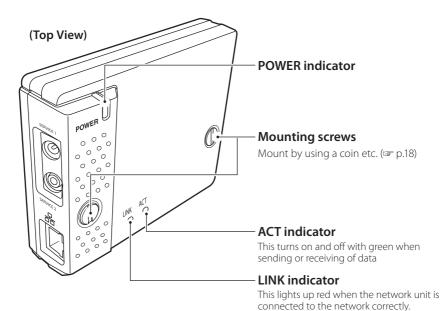
3 Installation of the software (p.26-28)

Explains how to install the software Network Viewer & Capture 3 into your computer.

Set up is complete

The preparation is completed to control the monitor connected to the network. At next step, set up and control the monitor via the network by using the web browser installed on your computer. Please see chapter 3 "Basic setting and operation". (\$\sigma\$ p.29)

[1] Name and function of each part



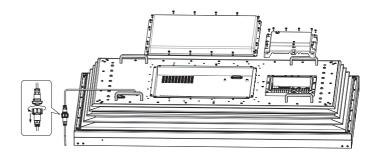
Connector plug Connecting to the terminal on the monitor. (\$\tilde{P}\$ p.18) SERVICE 1 Only for service use. SERVICE 2 Only for service use. LAN port Connecting the LAN cable. (\$\tilde{P}\$ p.19)

[2] Installation and network configuration

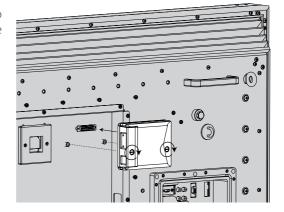
Mounting

1 Disconnect the AC plug from the monitor.

 ${f 2}$ Remove the screws on the back of the cabinet, and then remove the terminal covers.



3 Insert the network unit into the monitor, and fix it with the screws.

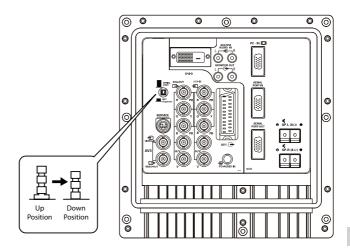




The AC cord must be disconnected from AC power outlet when mounting or removing this product. It may damage the product.

Do not connect the AC cord until after connecting the LAN cable and computer.

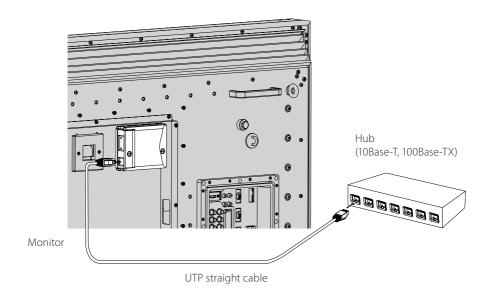
- $oldsymbol{4}$ Set the Option Switch from the UP position to the DOWN position.
- © Cannot use the serial port of the monitor in this position. Set back to the UP position when the network unit is not used.



Connection of LAN cable

To connect to the network, it is required to use the UTP (Unshielded Twisted Pair) straight cable with RJ-45 plug. There are two different types of cables depending on whether the network is constructed with 10Base-T or 100Base-TX. Prepare the Hub (10Base-T or 100Base-TX) to distribute the network cable if required.

- **1** Disconnect the AC plug from the monitor.
- **2** Connect the UTP straight cable to the LAN port on the network unit.
- **3** Connect the UTP straight cable to the hub.



The AC cord must be disconnected from AC power outlet when connecting the cable. It may damage the product.

When you set up the network which has a default setting by using computer, it must be carried out in the network which does not connect to other monitors.

[@] Use the UTP cross cable when you connect the computer and monitor directly not using the hub.

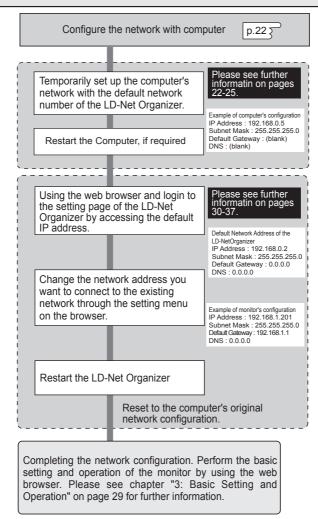
When you connect the monitor into the 10Base-T network, use cable with category 3 or 5. When you connect the monitor into the 100Base-TX network, use cable with category 5.

The length of cable between hub and monitor should be less than 100m.

Network configuration

When you connect a monitor to a network, the network number of monitor must be the same as the network you intend to connect. You should configure monitors network first. Make sure that the monitor is connected to the network correctly. To configure the network, use the computer. Refer to the chart below.

Procedure of Connecting the monitor to the network



Configure the network with the computer

This example explains how to set the following configuration.

IP Address :192.168.1.201 Subnet Mask :255.255.255.0 Default Gateway :192.168.1.1 DNS :0.0.0.0



The default network configuration is set as follows.

IP Address : 192.168.0.2 Subnet Mask : 255.255.255.0 Default Gateway : 0.0.0.0 DNS : 0.0.0.0



Make sure that the monitor is connected to the network and then connect the AC cord to the outlet.

1 Temporarily* set up your computer network configuration to the same IP network number as the LD-Net Organizer. For example, change your computer network configuration as follows and restart the computer.

> IP Address : 192.168.0.5 Subnet Mask : 255.255.255.0 Default Gateway : (blank)

DNS





The network configuration of computer differs depending on each network environment or your computer. For further information, please see the chapter "Configure the network of computer" on page 24.

^{*1} Change your computer's network configuration temporarily. After completing the set up for the monitor, you must set up again to the original network configuration for your computer. It is recommended to make a note of those network settings.

- $oldsymbol{2}$ Configure the network of the monitor by using the web browser.
 - 1. Enter the IP address of the monitor as the URL. The login page will be displayed and login. For further information, please see chapter "3: Basic Setting and Operation" on page 29.



2. Configure the network through the setting page on the browser. For further information, please see chapter "Network Configuration" on page 37.



Completing of installation

Now the installation is completed. The IP address of this monitor has been set to "192.168.1.201". You must reset the network configuration of the computer to the original and restart the computer.

Next, please see chapter "Basic Setting and Operation" on page 30. It describes how to operate and set up the monitor.

If you use a cable to connect the monitor and computer directly, without using a hub, you must use a UTP cross cable. In this case, you cannot access the login page if the setting of web browser is set to "Use proxy server". It must be changed to the "Not use proxy server". For further information, please see the "Web browser setting" of chapter "Appendix" on page 100.

When you set up the network of monitor which has a default setting by using the computer, it must be carried out in the network which does not provide any gateways (routers).

Configure the network of computer

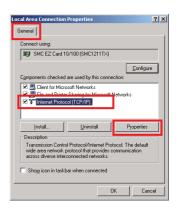
When you use the monitor through the network, the IP address of the monitor must have the same IP network number of the existing network. Also it is required to use the same IP network number of the computer to set up the monitor. In the network included with the gateway (router), it must be used with the IP network number specified by the gateway (router).

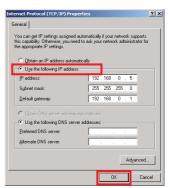
Configure the computer's network by following steps:

This example explains how to set the following network address.

IP Address : 192.168.0.5 Subnet Mask : 255.255.255.0 Gateway Address : 192.168.0.1

- 1 Select the Control Panel menu from the [Start] menu. Click the Network and Internet Connection and then click the Network on the control panel.
- 2 Click the Local Area Connection icon with right button of the mouse and then select the Property menu. The right window will appear on the screen.
- 3 Select the General tab on the "Local Area Connection Properties" dialog window. Select the Internet Protocol(TCP/IP)*1 and then press the Properties button.
- $m{4}$ On the "Internet Protocol (TCP/IP) Properties" dialog window, select the $m{Use}$ the following $m{IP}$ address button and then enter the $m{IP}$ address*2 and Subnet mask.
- $oldsymbol{5}$ Enter the Default gateway address.
 - This setting is not needed if the network does not provide the gateway (router).
- $oldsymbol{6}$ Click the $oldsymbol{OK}$ button, the setting window will be closed.





^{*1} Select the "TCP/IP" item of the LAN card you use. If the "TCP/IP" item is not listed in the column, you need to install the TCP/IP protocol. For further information refer to the user's manual of your computer.

^{*2} If the network already has the TCP/IP protocol set, enter with the same IP network number for the IP address and Subnet mask.

^{*3} There are some ways to set up the network depending on your computer's appearances.

Network PIN code setting

The Network PIN code can be set to restrict access to the setting page of the monitor using the web browser.

Default Network PIN code [0000] means no Network PIN code is set.

Notice about system construction

For installation of multiple monitors into the same network with network unit.

Do not install multiple monitors with network units that have their default network settings to the same network. The use of the network units which have the default IP address set to the same network settings will cause IP addresses to collide and create a malfunction. When you install multiple monitors into the same network, configure the network with the following steps.

- 1. Change the IP address from the default IP address. Please see item "Network configuration" for further information (p.21).
- 2. Make sure that there is no network equipment set with the same IP address in the network before connecting to the network.
- 3. When installing other monitors, follow the above steps to change the IP address and connect to the network.

In case of installing the monitor with network unit into the network constructed with the DHCP/BOOTP server.

This network unit does not support the DHCP/BOOTP server. The static IP address must be manually configured. To use this product in this network environment, set it up so that the DHCP/BOOTP server does not assign the IP address configured to this product for another device on the network. Please consult your network administrator for further information.

It is recommended to set up the Network PIN code when you connect the monitor to the network. This setting is carried out through the web browser. For further information, refer to item "Initial setting/Network PIN code setting" (@p.35).

[3] Installing the software

It is required to install the software into your computer to use the Network Capture function and Network Viewer function. Please install the software as follows.

Note: To install the software into the computer with Windows 2000, Windows XP or Windows NT, you should logon as administrator. Before installation, make sure that the other applications are closed, otherwise proper installation cannot be made.

Network Viewer & Capture 3 installation

- 1 Set the supplied Network Viewer & Capture 3 CD-ROM into the CD-ROM drive of your computer. Double click SetupTool.exe icon in the "Tool" folder in the CD-ROM.
- 2 Select "English [United States]" from the pull-down menu on the "Choose Setup Language" window and click OK button to start installing and then follow the installation wizards.



As the "License Agreement" will appear, read contents carefully and click **Yes** button if you agree to the license agreement to proceed with installing.









Installed software

The following 3 software are installed on your computer.

• Network Capture 3:

Capture the displayed image of the computer and serve it to the monitor via the network.

This software is registered into "startup folder" of the computer and the capture icon stays on the task bar after booting the computer.

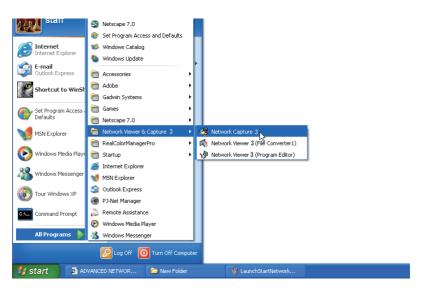


• Network Viewer 3 (File Converter 1):

Converts to the JPEG*¹ data format which can be displayed with the monitor from the JPEG, bitmap and Power Point files.

• Network Viewer 3 (Program Editor):

This is a tool to make the program which has a function to specify and order the displaying JPEG image data stored in the file servers.



^{*} To uninstall these software, use "Add/Remove Program" from the control panel.

^{*1} This product supports the JPEG image format. This file is needed to convert to the optimized JPEG file by using the File Converter 1 software previously. Refer to the item "Creating the available data [Network Viewer 3]"(\$\sigma\$ p.82) about data converting for the display.

File Converter 2 Installation

- 1 Set the supplied Network Viewer & Capture 3 CD-ROM into the CD-ROM drive of your computer. Double click SetupDrv.exe icon in the "Driver" folder in the CD-ROM.
- **2** Select "English [United States]" from the pull-down menu on the language selection window and then click **Install** button to start installing.









Installed software and places

Network Viewer 3 (File Converter 2) is installed in the "Printers and Faxes" folder in the "Control Panel"

• Network Viewer 3 (File Converter 2):

This is a kind of the printer driver to convert to the JPEG data optimized to display by the monitor from any of the documents created by the application software.



^{*} To uninstall Network Viewer 3(File Converter 2), just delete the "Network Viewer 3(File Converter 2)" icon from the "Printers and faxes" folder.

Chapter 3 Basic Setting and Operation

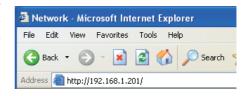
Describes basic operations and settings for controlling the monitor by using the web browser. It is required that computer and monitor is connected to the network and the network address is properly configured.

Login the setting page of the monitor

1 Enter the IP address

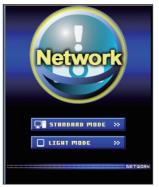
Launch the web browser installed in your computer, enter the IP address into the "Address" on the browser and then press "Enter" key.

Enter the address that you configured in item "Network configuration" (\$\sigma\$ p.21). The default IP address is [192.168.0.2].



2 Select a display mode and login

This product provides 2 types of control mode, Standard Mode and Light Mode as the below. Select a proper mode to match your PC and network environment by clicking on the text link. Once you select your desired display mode, the setting page you selected display mode will be displayed automatically from the next login. To change the display mode, click "Top" on lower-right corner of the setting page (\$\sigma\$ p.31).



STANDARD MODE

LIGHT MODE

For computer display, displays graphical menus and settings. This mode is recommended for standard use.

Displays with 200 x 300 dots. This mode is optimized for use of the handheld computer, PDA, etc. It is also convenient if the network traffic is heavy. (This mode has some limitations on the network viewer and multi-control functions)



* The entering User Name must be "user" and it can not be changed.

[Note]

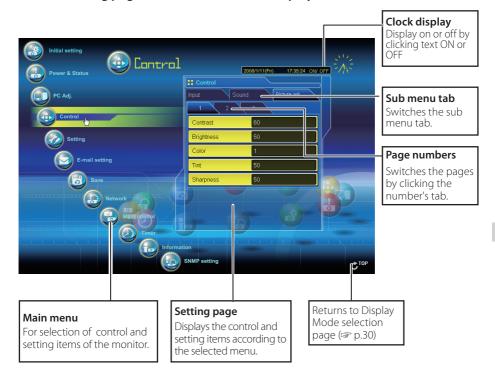
When accessing the monitor for the first time or the Network PIN code "0000" is set, the auto-login will be performed and the next main setting page is displayed.



3 Display of main setting page

The following main setting page will be displayed according to your display mode selection. Perform various kinds of settings through this page. Click on the menus to display the control and setting pages.

1 Main setting page in the Standard Mode display

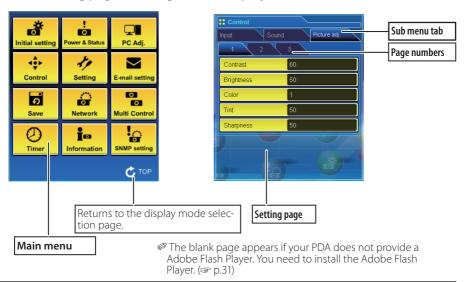


- This Standard mode display is mainly used through this manual for the setting and control description.
- If your computer does not have the Adobe Flash Player version 6 or later, follow to the message on the control page to install the Adobe Flash Player. For further product information or installing, see the Adobe homepage.

http://www.adobe.com



2 Main setting page in the Light Mode display

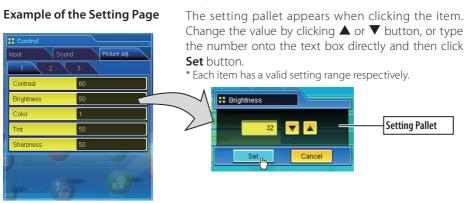


The network viewer function in the Light mode has following limitation;

- Cannot select the program or folder for the display (p.91, p.93)
- Cannot check up the images in the folder or program (p.94).

How to use the setting page

To control and set up the monitor, use the setting menus on the web browser. Describes the basic operation and procedures commonly used on this manual.



The value in the text box indicates current value.

Each item has a valid setting range. The setting value exceeding this becomes invalid. Some control items can not be used depending on the selecting input mode or functions of the monitor you use. In this case, the values of those items are indicated with "---".

Type of the setting pallet

Text box setting

Enter a number or text and then click **Set** button

or

Change a value with ▲ or ▼ button and then click **Set** button.

The value changes quickly when keeping pressing **A** or









Pull-down menu setting

Select an item with pull-down menu button and then click Set button.



Radio button setting

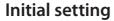
Select an item by selecting a radio button.



Check box setting

Select items by ticking on check boxes.





After installing this product to the monitor, perform the following basic initial setting.

Click **Initial setting** on the main menu to display the initial setting page.

The model name of the monitor on which this product is mounted is displayed on the page.



Item	Description
Model name	Indicates the model name of the monitor pro- vided with the network unit
Network PIN code	Sets the Network PIN code to login the setting page (☞ p.35).
Temperature	Switches display temperature unit Centigrade or Fahrenheit.



Use of Battery

This product provides a lithium battery. When the battery runs down, the clock and timer functions do not operate properly. Contact your local dealer for the replacement of battery. The replacement must be carried out by a qualified service personnel.

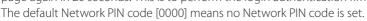
Network PIN code setting

This is to set the Network PIN code to restrict the access from an unauthorized person through the network.

Enter a 4-digit number as the Network PIN code onto the text box and click **Set** button.

The network unit begins restarting and it takes about 20 seconds. Close (Quit) the web browser and access to the login

page again in 20 seconds. This is to perform the login authentication firmly.





Valid characters for the Network PIN code are only numbers 0 to 9. The number "0000" means no Network PIN code is set.

This Network PIN code is not to restrict the use of the monitor. This Network PIN code is to set the security against the use of the monitor through the network.

If you forget the Network PIN code to the monitor, you can initialize PIN code and IP Address/Sub net/Gateway/DNS by selecting "Network initial" from "Installation mode" menu on the monitor. For further information, please see instruction manual of the monitor.



Item	Description
Time setting	When clicking AUTO button, the date and time
	set on your computer are set to the network unit
Current time	Indicates current date and time set on the net-
	work unit
Date	Sets date in manual
Time	Sets time in manual

Date and time setting

Auto setting

Click **AUTO** button on the page, the date and time set on your computer are set to the network unit.

Note:

Confirm that your computer has a correct clock time before performing the auto time setting.

Manual setting

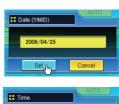
Click item **Date** or **Time** and enter date or time on the input box with adequate format.

Date is in year/month/day format.

ex. 2006/04/25

Time is in 24-hour:minute format.

ex. 18:30







Network configuration

Click **Network** on the main menu. The following setting page is displayed. The IP Address, Subnet Mask, Default Gateway, DNS (Domain Name Server) and monitor name are set up on this **Setting** sub menu.

The IP address and Subnet Mask have been configured already in chapter "Installation". If you want to change them or configure default gateway or DNS, perform them in this page. If you change them, the network unit begins restarting and it takes about 20 seconds. Close (Quit) the web browser and access to the login page again in 20 seconds.



Item	Description
IP address	Sets IP address of the monitor
Subnet mask	Sets Subnet mask. Normally sets 255.255.255.0
Default gateway*1	Sets IP address of the default gateway (Router)
DNS*2	Sets IP address of the DNS server. Must be set when using the e-mail function
Monitor name*3	Sets name of the monitor. (64 characters maximum)

You must use the number specified by your administrator. The address must be entered as a group with four numbers split by a dot like [192.168.001.101].

^{*1} Set [0.0.0.0] if the network does not provide the gateway (router).

^{*2} Set [0.0.0.0] if you do not use the function E-mail alert.

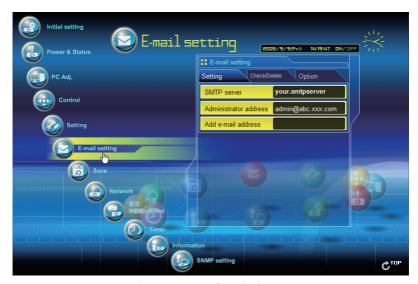
^{*3} If you use the DNS server, register the host name registered to the DNS server as a monitor name. You can access with this monitor name from any computers in your network. If you do not use the DNS server, access with the assigned IP address to the monitor.

^{*} All the network setting will reset to the default when setting [0.0.0.0] of the IP Address.



E-mail setting

This product has an E-mail function which can send an alert message to users or an administrator if it detects an abnormality on the monitor. Click **E-mail setting** on the main menu and follow the below steps.





ltem	Description
SMTP server*	1Sets server name or IP address of the SMTP server
Administrato	r
address	Sets e-mail address of administrator
Add e-mail	
address	Sets e-mail address of the user to send mail when the monitor has an abnormality.

1 Setting SMTP server and administrator address

Set the server name or IP address of the SMTP server* and administrator address. The administrator address is set to "Reply-To" address of the message sent from the monitor.

*1 The SMTP server is a server for sending E-mail. Please contact your network administrator to have this SMTP server address.

If the network unit sends an alert message due to the abnormality on the monitor but the SMTP server is down in some other reason, the message will not be sent. In this case, the message "Unable to connect to server." will be displayed on the setting page. To clear this message, set up SMTP server address again.

To use the E-mail function, it must be set the DNS address on the Network setting page correctly.

You cannot use this E-mail function if the DNS server and SMTP server cannot be used in your network environment.

2 Registering and deleting E-mail addresses

Click "Add e-mail address" and type the e-mail address onto the text box and click **Set** button. To check the registered addresses, click **Check/Delete** sub menu tab. The addresses are listed as the figure on the right.

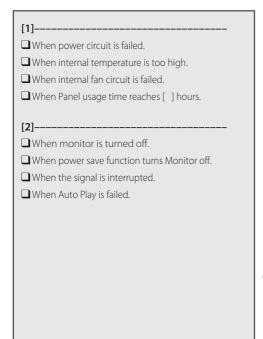
Up to 10 E-mail addresses can be registered.

To delete the registered addresses, check the address you want to delete and click **Delete** button.

3 Option selection for sending alert mail

Click **Option** sub menu tab. Check the condition items under which alert mail will be sent and click **Set** button.

Please refer to item "Examples: Type and contents of alert mail" described on the next page.





Check / Delete



Option



- If condition "When Auto Play is failed" is checked, the trap is sent when occurring the error during the auto display operation using with the network viewer function (p.92). For further information of the error, refer to item "Auto Display setting and control page [3]"(r p.95).
- Up to 99,999 hours can be set for use time.
- If condition "When monitor is turned off" is checked, the trap is sent when the monitor is turned off except Power/Fan fail, High temp, Power save.

Examples: Type and contents of alert mail

When the monitor has an abnormality, the following alert messages are sent to the registered E-mail address according to your selected condition. Administrator or user can take an efficient action quickly by receiving this message. This is very useful to maintain and service the monitor.

The following are examples of received messages.

When power circuit is failed:

TITLE: Message from monitor 10-03-2005 00:59 Monitor Model Name: *model name* TCP/IP: 192.168.1.201 Monitor Name: Lcd05

It sends you following message.

* Error! Power circuit has failed.

The monitor was turned off, because the monitor power circuit failed.
Unplug the monitor from AC outlet and ask servicing to a qualified service personnel with the error information

• When internal temperature is too high:

TITLE: Message from monitor 10-03-2005 00:59 Monitor Model Name: *model name* TCP/IP: 192.168.1.201 Monitor Name: Lcd05

It sends you following message.

* Error! Internal temperature is too high, please check unit.

The monitor was turned off, because the monitor internal temperature rose too high. Unplug the monitor from AC outlet and ask servicing to a qualified service personnel with the error information.

• When internal fan circuit is failed:

TITLE: Message from monitor 10-03-2005 00:59 Monitor Model Name: *model name* TCP/IP: 192.168.1.201 Monitor Name: Lcd05

It sends you following message.

*Error! Internal fan circuit has failed, please check unit.

• When panel usage time reaches [] hours:

TITLE: Message from monitor 10-03-2005 00:59 Monitor Model Name: *model name* TCP/IP: 192.168.1.201 Monitor Name: Lcd05

It sends you following message.

*Information! Panel usage time has reached "****" hours.

The network unit sends this message when the panel usage time reaches the preseted time.

• When power save function turns Monitor off:

TITLE: Message from monitor 10-03-2005 00:59 Monitor Model Name: *model name* TCP/IP: 192.168.1.201 Monitor Name: Lcd05

It sends you following message.

*Information! Power save function turns Monitor off.

• When the signal is interrupted:

TITLE: Message from monitor 10-03-2005 00:59 Monitor Model Name: *model name* TCP/IP: 192.168.1.201 Monitor Name: Lcd05

It sends you following message.

*Information! The signal is interrupted.



SNMP setting

This product provides a SNMP (Simple Network Management Protocol) agent function. The SNMP consists of a manager and agents. The group which communicates information each other with SNMP is called

"Community". There are two access modes in a community, Refer (read only) and Set (read-write). This product allows to use Refer (read only) only. The SNMP message informs the monitor status called "Trap" to an administrator. Click **SNMP setting** on the main menu and set up each item.





Monitor information

Item	Description
Contact	Enter user name of the monitor etc. (optional)
Place	Enter place of the monitor (optional)
Community	
name(refer)	Enter community name (read only). Default name is "public".

The SNMP agent provided with this product is based upon MIB-2 defined by RFC1213. For private MIB information, refer to file "Mibinfo/52LdNet.mib" in the CD-ROM.





Item	Description

Community name......Enter community name to send "Trap". Default name is "public".

Trap address..... Enter IP address of the SNMP manager computer to receive "Trap".



Trap check/delete

Check and delete the trap address

Checking the registered trap address and deleting the address.

To delete the address, tick check box in front of the IP address and click **Delete** button.

Up to 10 trap addresses can be registered.

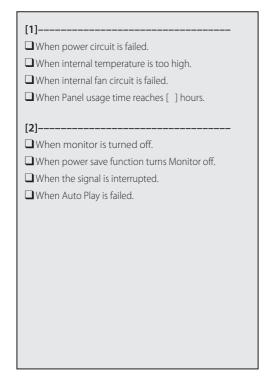


Trap option

Trap option setting

Tick check boxes in front of the condition item to send the trap.

Click **Set** button if you tick or un-tick the check box on a page.



Up to 99,999 hours can be set for the time setting.

If condition "When Auto Play is failed" is checked, the trap is sent when occurring the error during the auto display operation using with the network viewer function (p.92). For further information of the error, refer to item "Auto Display setting and control page [3]" p.95).

Chapter 4 **Controlling the Monitor**

Describes controlling and setting of the monitor by using the web browser.



Power control and status check

Click **Power & Status** on the main menu. The control page will be displayed.

By clicking \mathbf{ON} or $\mathbf{Standby}$ button on the page, the power of the monitor can be controlled.





Popup confirmation window

ltem	Description
Monitor sta	tus
Power	Displays the status of the monitor. (ON, OFF)
Status	Displays the status of the monitor's power.
Power cor	ntrolControls the monitor power by clicking the "ON" or "Standby" button.

Monitor temperature

Inside temperature Displays the internal temperature of the monitor.

*The temperature unit can be set either Centigrade or Fahrenheit in item "Initial setting". (@ p.34)

Controls

Click **Control** on the main menu. The setting method differs depending on the contents of the page. Click on the page number to change pages and select desired setting items.

Please see the instruction manual of the monitor to have the further information of each control item.



Input

This function is to select the input mode and source mode of the monitor. Click **Set** button after selecting the input and source mode.



Item	Description
Input	Selects input mode of the monitor.
•	AV 1
	RGB
	AV 2
	AV 3
	PC
	DVI
	NETWORK
Source	Selects signal source of the input. AV 2 : YPbPr/RGBHV

The control page displays valid control items depending on the selected input mode, signal, therefore, there may be different controls between the described items and actual control items on the page display. For further information, refer to the monitor's owner's manual.

When the monitor is in standby, only the timer on the setting menu is effective; others are inactive.

Picture adjustment

This function is to adjust the displayed picture image.



ltem	Description
Contrast	Adjusts picture contrast
Brightness	Adjusts picture brightness
Color	Adjusts picture color saturation
Tint	Adjusts picture hue
Sharpness	Adjusts picture sharpness.



Item	Description
White Tone	Sets a white tone mode. (Cool, Standard, Warm, Personal)
Picture Mode	Sets a picture mode. (Standard, Dynamic, Soft, Eco, Personal)



ltem	Description
DCDi	Switches DCDi (Directional Correlational Deinterlacing) mode. (Off, On)
ACC/ACM	Switches ACC/ACM (ACC: Adaptive Contrast and Color; ACM-II: Active Color Management-II) mode. (Off, Vivid, Cinema, Sport)
CCS	Switches CCS (Cross Color Separation) mode. (Off, Auto, Standard)
DNR	Switches DNR (Digital Noise Reduction) mode. (Off, Auto, Low, Mid, High)
MPEG NR	Switches MPEG NR (MPEG Noise Reduction) mode. (Off, On)
Film mode	Switches Film mode (Inverse 3:2 pulldown): mode. (Off, On)



Sound

This function is to adjust the sound of the monitor. The values in the text box represent the current control value or status.



Item	Description
Volume	Adjusts the sound volume.
Mute	Suppresses the sound. (ON, OFF)



PC adjustment

Click **PC Adj.** on the main menu. This function is to adjust the signal from the computer connected to the monitor to obtain the proper picture image on the screen.





Item	Description
Auto PC adj	Performs automatic adjustment.
H-Position	Adjusts the horizontal position of the screen.
V-Position	Adjusts the vertical position of the screen.
Clock	Eliminates flicker from the image.
Phase	Fliminates disorder from the image



Setting up the monitor

Click **Setting** on the main menu. This function is to set up the monitor. Select the sub menu [Screen setting], [Setting] or [Tile Mode] and then set up each setting.





Item	Description
Wide	Switches the screen mode. (Full, Zoom16:9,
	Title16:9, Zoom14:9, Title14:9, Normal, Natural)
	There may not be available mode depending on
	the input mode



Item	Description
Freeze	Sets the image to freeze mode.(ON, OFF)
Child lock	Sets child lock mode. (ON, OFF)
RC Inhibition	Sets remote control inhibition mode. (ON, OFF)
Initial setting	Sets all of the monitor control items to the fac- tory default setting except for Installation mode .
	* This function is not effective for the settings of the network unit (Network address settings,
	e-mail settings, etc.)







Item	Description
Tile Mode ActiveSets tile mode active. (Off, On)	
H-Sets	Sets to divide the horizontal picture.
V-Sets	Sets to divide the vertical picture.
H-Location	Select one part of the horizontal picture.
V-Location	Select one part of the vertical picture.
Bezel H Adjustment Adjusts the horizontal picture for smooth image.	
Bezel V Adjustme	ntAdjusts the vertical picture for smooth image.
•	,

Refer to the monitor's instruction manual for operation of the Tile mode.



Timer setting

This page is to set the timer to turn the monitor off or on at a programmed day/date and time. Follow the steps below for setting. Click **Timer** on the main menu



How to set the timer

1 Set a day or date

To set the timer event at same time everyday or every week,

Select day entry with radio button and then select desired day with the pull-down menu button.

The selectable days are as follows:

- Same time everyday - Every week (days from Monday to Sunday)

To set the timer event on specified date,

select date entry with radio button and then type the date with (Year/Month/Date) format.

Ex.: Type [2005/12/20] if you specify [December 20, 2005].

2 Set an execute time

Type the time with (Hour:Minute) and 24 hours format.

Ex.: Type [18:25] if you specify [PM 6 o'clock and 25 minutes].

3 Select an event action

Select an event action from the pull-down menu.

Event	Action	
ON	Turns on the monitor	
OFF	Turns off the monitor	

^{*}Available events depends on the monitor function.

4 Register an event

Click **Set** button to register the set timer event. Repeat steps 1 to 4 for another timer event setting.

Check the timer events

To check the set timer events, click **Check** button. The timer events are listed. The event with blue background color represents the timer-OFF event.



Change the event mode

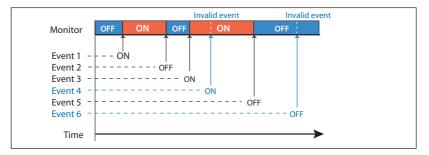
On the event list appearing by clicking **Check** button, click on the event you want to delete, disable or enable. Click **Cancel**, **Delete**, **Timer ON** or **Timer OFF** button on the popup pallet.

Operation
Cancels the setting
Deletes the timer event
Disable the timer event temporarily
Enable the timer event



Notes on timer setting

Up to 10 timer events can be registered. Timer events always operate according to the next valid event depending on the monitor's power status. In the example below, event 3 turns on the monitor so next event 4 (also turning on monitor) will not be effective because the monitor is already turned on. Similarly, when the monitor is turned off by event 5, event 6 OFF will not be effective in turning it off again. But these secondary events (event 4 and event 6) will become effective if a person turns off the monitor (after event 3 and before event 4) or turns on the monitor (after event 5 and before event 6).



When the timer events are set at the same time, the last event set will override the previous events. For example, if there is an event like "ON at 8:00 everyday" and then new event is set like "OFF at 8:00 everyday", only the last setting event is effective.

The timer operates by using the clock function provided in this product. Before setting the timer, please confirm that the current date and time are set correctly. Timer and clock functions are functioning using a lithium battery provided in this product. When the battery runs down, the clock and timer functions will not operate correctly. Consult your local dealer for the replacement of battery. The replacement must be carried out by a qualified service personnel.



Monitor information

This page is to display the basic information of the monitor status. Click **Information** on the main menu.



	AV1	
System	AUTO	
Signal	No	
Wide	Full	
	7	h
	OFF	
	Update	4
		4

Items	Description
Input	Displays selected input and source.
System	Displays selected signal system.
Signal	Input signal status (Yes, No)
Wide	Displays screen mode.
Panel time	Displays the panel use time.
Timer	Displays the timer status (ON, OFF)

Click this button to update the information

Multi-control

Controlling and setting the multi-monitors

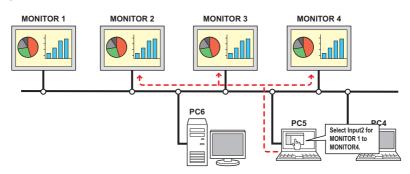
This function enables you to control the multiple monitors equipped with the network units that are connected to the network. Click **Multi Control** on the main menu to display the control page.

Note

To control the multiple monitors, each monitor must have the same Network PIN code.



Example of multi control



Start/stop the multi control

To start or stop controlling the multi-monitors, click Multi control setting menu and select ON or OFF.

Multi control setting

OFFStops multi control function

ON......Starts multi control function. The multi control menu will appear when setting ON. These items of menu are linked to the main menu.







The multi controllable menus are "Power & Status", "PC adjustment", "Control", "Setting", "E-mail setting", "Timer", "SNMP setting" and "Network Viewer". Click each menu and perform setting and adjustment.

The word "MULTI CONTROL" appears on the each control page while the multi control is operating.



This shows the multi control is operating now.

Register the monitor

To use the multi control function, register the IP address of the monitor you intend to control. Click **Registration** sub menu tab and set the IP address, Memo and Multi control item, then click **Set** button.



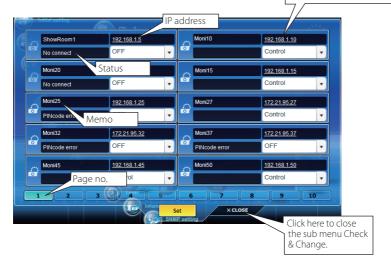
Items	Description
IP address	Enter IP address of the monitor to control
Memo	Enter monitor name or installed location etc.
Multi control item	
Control	Controlling the monitor
Both control Controlling and displaying images	
Visual control	Displaying the images

Confirmation of registered monitor

To check the registered information, click **Check & Change** sub menu tab. The registered information of the monitor is listed as the below.

* The word "none" is displayed if not using the "Memo" function.

* When you click on a listed IP address, the login page for the selected monitor will be displayed with a new window.



Change the mode of the registered monitor

To change the mode of the registered monitor, select a mode with the pull-down menu button under the IP address of the target monitor and then click **Set** button.

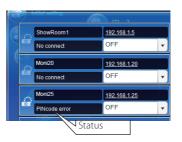


Mode	Operation
Control	Controlling the monitor
Both control	Controlling and displaying pictures
Visual control	Displaying the pictures
OFF	Excluding from the multi-control
Delete	Deleting from the multi-control

* The multi control item is not changed during using the network viewer function. It is not available with the light mode.

Status

If some of the registered monitors are disabled by some reasons (such as disconnecting the power source, disconnecting the LAN cable, disconnecting from the network), control changes will continue to be effective for the monitors that are still active. At the same time, the deactivated monitors are excluded from the multi-control. The status of the registered monitors are indicated under the monitor name. See the table below for status indications

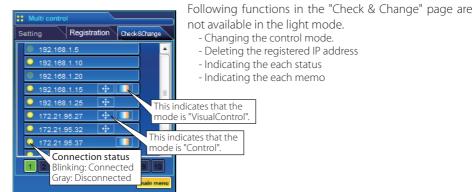


Status	Description
(blank)	The monitor is connected to the network correctly
No connect	The monitor may not be connected to the network. Please check the connection and network configuration of this monitor.
PIN code error	The PIN code is incorrect. The PIN code for the multi-controlled monitors must be the same. Change the PIN code of this monitor to the common PIN code.
File Error	Not displaying the images. Check if this monitor is using the Network Capture func-
	tion or Network Viewer function individually, or in the standby mode.

^{*}The network unit updates the status at the time when the multi-control function was executed.

- If the multi-controlled monitor is in the standby mode, any change is not effective except timer setting.
- Cannot register, delete or change the multi-control setting during using the network viewer function.
- It is recommended that a specified monitor should be chosen for setting as a master when you use this multi-control function. The control for the multi-controlled monitors will become too complicated operation if this function is used for each monitor.
- If the registered monitor is not connected to the network, it will take some time to complete the multi-control operation because of waiting for the response from each registered monitor.
- There are some disabled items in the multi-control function for the light mode.

Check & Change page in the light mode



(Check & Change page in the light mode)

Controlling all together

"Power & Status", "PC adjustment", "Control" and "Setting" can be controlled all together. Set "ON" the multi control setting and adjust controls of each menu. The setting value is applied to the registered monitors sequentially.

This is effective only if the multi control item of the registered monitor sets to either "Control&Image" or "Control".



Setting all together

"E-mail setting", "SNMP setting" and "Timer" can be set all together. Set "ON" the multi control setting and items of each menu. The setting value is applied to the registered monitors sequentially.

This is effective only if the multi control item of the registered monitor sets to either "Control&Image" or "Control".



Viewer auto setting all together

"Viewer auto display" can be set all together. Set "ON" the multi control setting and select [3] Auto display setting from Viewer sub menu (selected by "Multi-control" - "Network Viewer" menu). Set the display time periods and repeat times for the auto image display. When clicking Start button, the registered monitors start playing back the auto image display in seguential.

- Ø For further information of the Auto display, see "Using the network viewer function". (☞ p.92)
- This is effective only if the multi control item of the registered monitor sets to either "Control&Image" or "Image".



Chapter 5 **Network Capture**

Network Capture is a function to display the screen image of the computer via the network.

- Real Time Capture
- Network Communication

OWNER'S MANUAL

About Network Capture function

The Network Capture is a function to display the screen images of the computer which has a Network Capture 3 software by the monitor through the network. This function has 2 kinds of mode as the below.

- Real Time Capture (\$\infty\$p.68)

A function to display the screen image of the computer by the monitor through the network in real time.

- Network Communication (@p.71)

This mode is to communicate by sharing the capture image of a computer with multiple computers and a monitor. User can draw the text and figure on the captured image by using a drawing tool.

Launching the Network Capture 3

After installing the Network Capture 3 software, the shortcut icon is copied into the "Startup" folder. When you boot the computer, the Network Capture software also starts and its icon stays on the task bar. If the icon is not appeared on the task bar, the Network Capture 3 software is not starting. Click "Network Capture 3" from "Start" - "All the Programs" - "Network Viewer & Capture 3" menu to launch it manually. The status which the Network Capture 3 icon stays on the task bar is just preparing the screen capturing.



Commands on the task bar

When clicking the **Network Viewer & Capture 3** icon on the task bar, The popup menu will appear as the right. See the next page for each operation.

Start real time capture Start Communication Parameter set up... Version information... Shut down

Up to 30 computers can be registered.

The Network Capture function cannot be used when using the Network Viewer function. The Real Time Capture and Network Communication mode cannot be used at the same time.

Items	Description
Start real time capture	Starts the real time capturing. (p.68) The screen image of the computer is displayed on the monitor in real time.
Start communication	Starts the Network Communication. (p.71) Captured image is displayed on the monitor. The captured image edit window appears on the computer screen.
Parameter set up	Sets the communication parameter between the computer and network unit of the monitor. For further information, see item "Parameter set up" below.
Version information	Displays the version of this software.
Shut down	Quits the application.

Parameter set up

- **1** Click **Network Capture 3 icon** on the task bar.
- **2** Click "Parameter set up" on the popup menu. The setting window will appear.
- **3** Set **Capture Port** and **PIN code** to match to the monitor's port number and Network PIN code.
 - To check the Capture Port number, see item "Control by the web browser" (\$\sigma\$ p.70). To check the PIN code, see item "Network PIN code setting" (\$\sigma\$ p.35).
 - Specify the port number of TCP/IP. The default port setting is 9000. There are some reserved port numbers and also some applications may use their own port numbers. If one of those port numbers is used, the alert dialog window will appear and let you know that it is an invalid port number. In this case, use another port number.
 - The reserved port numbers are http (80), ftp (21), telnet (23), etc. The port no. 4352, 10000, 10001 are reserved to control the monitor through the LAN port.
- 4 Click **Search** button to list up the available IP address assigned to the monitor and select desired IP address you use, or you can enter the IP address or host name manually if you know that IP address or host name.
 - It may not find any address over the router. Consult your network administrator for further details.
- **5** Set the quality of the image.

Quality: Selects from High, Mid, Low

Image Scaling: If checked, the screen image size of the computer is automatically adjusted to the monitor's screen size.

- **6** Set capture start time in second unit.
 - This is effective in the communication mode only. It sets up the time period from executing the command "Capture transfer" to capturing and transferring the actual screen image. 0 to 60 seconds can be set.
- **7** Click **OK** button to close the setting window.

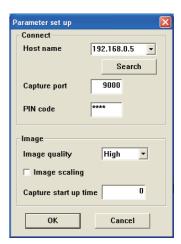
About Image Quality

Quality: Quality mode of the captured image shows following JPEG compression mode.;

High : JPEG low compression mode

Medium : JPEG medium compression mode

Low : JPEG high compression mode



Using the Real Time Capture

This is a function to display the screen image of the computer by the monitor in real time. The captured image displayed by the monitor can be selected from the computer, web browser and the monitor respectively.

Registering the computers

Up to 30 computers can be registered.

- 1 Access to the control page of the monitor by using the web browser. From the **Network** menu, click **Capture** tab to display the setting page (\$\sigma\$ p.37).
- **2** Switch to **Connection setting** page by clicking the page number tab [3]. Enter the IP address of the computer to the PC number, and then click **Set** button. Click **Set** button to register the IP address for each page.

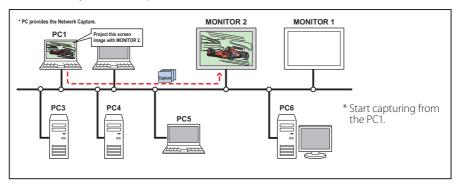


The registered computer enables to start capturing if only the Network Capture icon appears on the task bar.

The transfer speed of the captured image using the Real Time Capture function is depending on the network environment and data volume of the image. For example, when transferring an image (Computer resolutions and colors: XGA, full color, Picture quality: High), the transfer speed is about 2 pages per second in maximum. It cannot be supported for movie pictures.

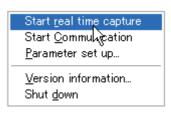
The mouse pointer on the computer's screen cannot be captured.

[1] Control by the computer



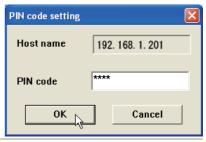
Select input mode to "Network" previously.

- 1 Click **Network Capture 3 icon** on the task bar.
- 2 Click Start real time capture on the popup menu. The screen image of the computer will appear on the monitor display in real time.
 - To stop capturing, click **Stop real time capture** on the popup menu. The captured image of the computer on the screen is frozen.
 - To restart capturing, click **Restart real time capture** on the popup menu.
- ${f 3}$ To end capturing, click ${f End}$ real time capture on the popup menu.



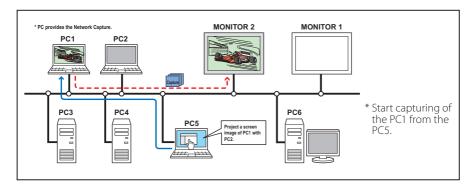


If the Network PIN code set on the monitor differs from PIN code set on the parameter setting up, The Pin code setting window appears. Enter a correct PIN code and click **OK** button.



If the error message appears, check item "Parameter set up" (p.67).

[2] Control by the web browser



Select input mode to "Network" previously.

- 1 Access to the control page of the monitor by using the web browser. From the **Network** menu, click **Capture** tab to display the setting page (\$\infty\$ p.37).
- **2** Select the computer number from the pull-down menu button of "Connecting PC" and click **Start** button. The screen image of the selected computer will appear on the monitor display in real time.
 - To stop capturing, click **Stop** button. The captured image of the computer on the monitor is frozen.
 - To restart capturing, click **Restart** button.
- **3** To end capturing, click **End** button.



The IP address of the connecting PC should be registered previously (p.68).

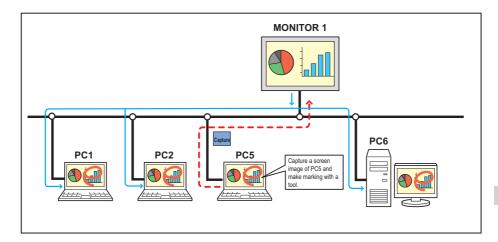
If the error message appears, check item "Parameter set up" (p.67).

You can use the capture function by using the web browser or the monitor if the Network Capture 3 software is installed into the computer correctly and its icon stays on the task bar.

Using the Network Communication

This Network Communication is to communicate by sharing the captured image of a computer with multiple computers and a monitor. User can draw the text and figure on the captured image by using a drawing tool.

The data that has the captured image of a Main PC and communication information is sent to the monitor. The monitor displays this data onto the screen and serves this data to other computers (Sub PC) at the same time. The Sub PC receives served capture data and displays it on the screen. The Main PC and Sub PC also can edit the captured image by using the drawing tool. This edited image is applied to all the computers automatically.



- * The Main PC is a computer which started using of communication function, and serves own computer screen captured image to the Sub PC. The Main PC has an authority to quit using whole of communication. To become the Main PC, execute the command "Start Communication" or "Capture transfer". For further information, see item "How to use the Network Communication". (@ p.75)
- *The Sub PC is a computer which receives a captured image from the Main PC. On the communication mode, the Sub PC can become the Main PC anytime.

Settings before using the Network Communication

To use the Network Communication, the capture setting of the network should be set either [1] or [2] described below.

[1] Setting the network unit searches all the available target computers in the network automatically.

or

[2] Setting the target computers are registered to the network unit.

Perform capture setting following to the description below.

[1] When serving the capture data to all the target computers in the network.

By using the web browser, display "Communication setting" from menu "Network"-"Capture"-"Page 2". Confirm that the item Auto search target PC is "ON". If "OFF", change mode to "ON".

* Network unit can find up to 30 computers in the network.



[2] When serving the capture data to the specific target computers in the network.

Set item Auto search target PC is "OFF" described in the above and then display "Connection setting" from menu "Network"-"Capture"-"Page 3" with the web browser. Enter the IP address of target computer and click **Set** button to register.

* Up to 30 computers can be registered to the network unit.



Description of capture editing window

Select menu "Start Communication" from the popup menu appearing by clicking the Network Capture 3 icon on the task bar. The capture editing window will appear on the computer screen as the below. For basic operation of each menu, refer to the item "Menu tree" below.

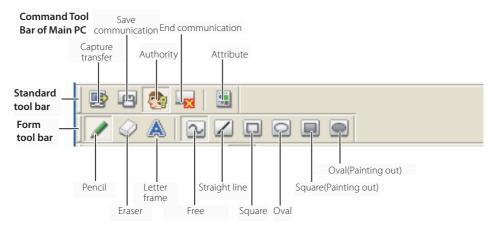


Menu tree

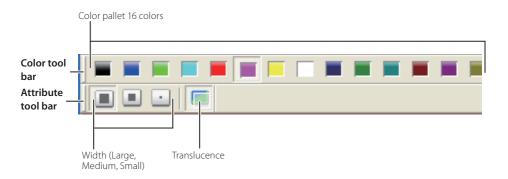
Menu	Submenu	Operation
File	Save Communication	Saves a captured editing image as the data(JPEG)
		Save dialog window appears
	End Communication * main pc or	Ouit the communication mode
	└─End Editing * sub pc only	Close the Editing window
Control	Capture transfer	Captures a screen image and sends it to the network unit
	☐ Authority	Acquire/release the authority to edit the capture image
Edit	Tool Pencil	Selects a pencil tool
	Eraser	Selects an eraser tool
	Letter frame	Selects a letter frame tool
	Form Free	Draws line with freehand
	(Shape) Straight line	Draws straight line
	Square	Draws square
	Oval	Draws oval
	Square(Painting	out) Draws filled square
	Oval(Painting of	out) Draws filled oval
	Attribute	Appears a attribute window
	—Delete all	Delete all the drawings on the image
	└─ Undo	Cancel the last executed operation
Display —	Full screen	Switches capture editing window, normal or full screen
	Tool bar — Standard	Switches standard tool buttons on or off
	Form(shape)	Switches form(Shape) tool buttons on or off
	Color	Switches color tool buttons on r off
	☐ Attribute	Switches attribute tool buttons on or off
	└─Display on foreground	Keeps capture editing window on foreground always
Help	Version information	Displays software version number

Tool bar button names

The following commands are assigned to the tool bar buttons. For each operation, refer to the description of item "Menu tree".







To switch the tool bars displaying on or off, select each command from menu "Display"-"Tool bar".

User can realign and join the tool bars (Standard, Shape, Color, Attribute), and change it to the floating pallet by taking a drag and drop of the tool bars.

There are some disable buttons depending on the tools and authority mode. In this case the button indicates with gray.

How to use the Network Communication

Start the communication

- **1** Display an image on the computer screen.
- **2** Select **Start Communication** from the popup menu appeared by clicking **Network Capture 3** icon on the task bar.

The capture editing window with a captured image appears on the computer screen.

Ø If an error message appears, check item "Parameter set up". (☞ p.67)

The icon on the task bar is activated during the network communication operates.

Start real time capture Start Communication Parameter set up... Version information... Shut down

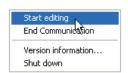
Icon on the task bar



Standby Communication

Join the communication (only for Sub PC)

- 1 Network Capture 3 icon is activated to inform users in the network that the Network Communication is operating. Display the popup menu by clicking its icon.
- **2** Select **Start editing** menu. The capture editing window with a captured image appears on the computer screen.



Exit from the communication (only for Sub PC)

Click "xx:End editing" button on the standard tool bar. The capture editing window will be closed.

- This command is available with the Sub PC only.
- When executing "End editing" with the authority provided, the authority will be released.

End the communication

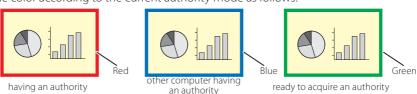
Click "End communication" button on the standard tool bar.

The capture editing window will be closed.

- This command is available with the Main PC only.
- It cannot be ended the communication while other PC has the authority. To end communication forcibly, click the Capture 3 icon on the task bar and select "Shut down" on the popup menu.

Acquire and release of editing authority

To edit the capture image, each computer needs to acquire the authority respectively. To acquire the authority, click ": Authority" button on the standard tool bar and then edit the capture image. The capture editing window indicates the authority status by changing the frame color according to the current authority mode as follows.



Edit capture image

Drawing figures

- 1 Click " ?:Pencil" button on the form tool bar.
- **2** Select its attribute (shape, width, color and translucence) from the form and attribute tool bar.
- **3** Drag a mouse pointer on the screen image to draw the figure.

Erase drawn object

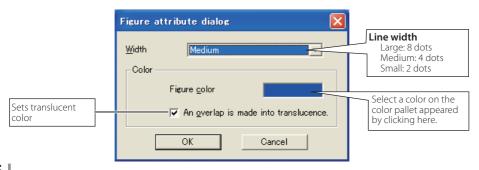
- 1 Click "♥: Eraser" button on the form tool bar.
- **2** Select its attribute (shape, width) from the form and attribute tool bar.
- **3** Drag a mouse pointer on the screen image to erase the figure.

Hints of the drawing

- Square tool......To draw the quadrate rectangle, drag a mouse pointer with shift key pressed.
- Oval tool......To draw the perfect circle, drag a mouse pointer with shift key pressed.
- To cancel the drawing, select command "Edit"-"Undo" from the menu.
- To erase all the drawing at once, select command "Edit"-"Delete all" from the menu.
- The popup menu appeared by right clicking of the mouse is also available to select the tool and change the attribute.

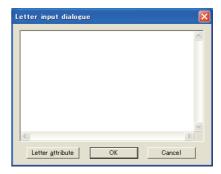
Setting of the drawing tool attribute

When clicking "\overline{\overline{1}}: Attribute" button on the standard tool bar, the following window will appear. This window appears only if the pencil or eraser tool is selected.



Drawing letter

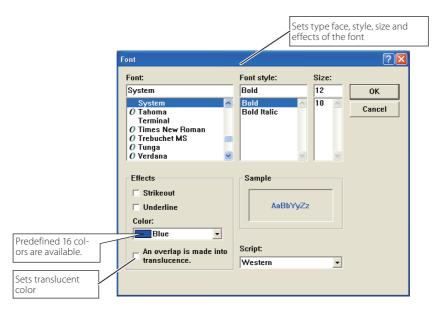
- 1 Click "A:Letter frame" button on the form tool bar.
- **2** Select a color of text with color tool bar.
- **3** Drag a mouse pointer on the screen image to specify the area of the letter frame. The letter input dialog window will appear.
- 4 Enter the letter onto the window. To change the letter attribute, click Letter attribute button. See item "letter attribute setting" below.
- ${f 5}$ Click ${f OK}$ button to fix the content. The entered letter appears on the captured image.



- If the entered letter overflows the area of letter frame, the letter frame is automatically extended downward.
- Up to 1000 characters can be used for a letter frame.

Letter attribute setting

The font attribute setting window appears when clicking " Attribute" button on the standard tool bar with the letter frame tool selected, or clicking **Letter attribute** button on the letter input dialog window described the above.



Network Communication operation and change of state

Network Communication can be used under the environment which one or more computers are connected to the monitor via the network.

Preparation

Launch the Network Capture 3 software on the target computer (\$\sigma\$ p.66). Set the monitor in the standby or turning on. Check IP address of the target computer is registered in the connection list (\$\sigma\$ p.72).

	Operation on the Main PC		Operation on the Sub PC	
	 1 Executing the command "Start Communication". → The capture editing window appears on the screen. The icon on the task bar is activated. 	Frame	 → The icon on the task bar is activated to let users know that the captured image is now serving. 1 Executing the command "Start Editing". → The capture image on the Main PC appears on the screen. 	Frame
	 Editing the capture image using with the tools. The editing information is automatically transferred to the Sub PC. 	R	→ The editing information on the Main PC is reflected on the Sub PC.	В
	③ Releasing the editing authority.→ The color of authority status frame changes green.	G	→ The color of authority status frame changes green.	G
On th	→ The color of authority status frame changes blue.	В	Acquiring the authority.The color of authority status frame changes red.	R
the Communication	→ The editing information on the Sub PC is reflected on the Main PC.	В	 Editing the captured image using with the tools. The editing information is automatically transferred to the target PC. 	R
unica	→ The color of authority status frame changes green.	G	 Releasing the editing authority. The color of authority status frame changes green. 	G
tion	Acquiring the authority. The color of authority status frame changes red.	R	→ The color of authority status frame changes blue.	В
	5 Repeat steps 2, 3 if required.		5 Repeat steps 2 to 4 if required.	
	Executing the command "Capture transfer". Updating the editing window with a new captured screen image.	R	→ A new captured screen image appears on the editing window.	В
	7 Repeat steps 2 to 5.			
	■ Ending the communication.→ The capture editing window disappears.	R	→ The capture editing window disappears.	

The monitor displays the edited captured image on the screen when the input mode of the monitor is set "Network".

The command "Save Communication" can be executed in any of the mode even if not having the authority.

 $[\]mathscr{O}$ The arrow (\Rightarrow) shows a response to the command executed.

The execution of the command "End Communication" or "End Editing" on the Sub PC has no effect on the other target computers.

Executing the forcing mode

The network capture setting of the web page provides a forcing executing command. This command executes the release of authority or ending the communication forcibly. This is useful when the other target PC keeps an authority all the time, or when the condition of the communication is not stable.

Click page 2 **Communication setting** from the menu "Network"-"Capture". Execute command by clicking the button **Free**, **Quit** or **Update**.



ltem	Description		
Free	Releases the editing authority forcibly		
	→ Sets condition which all the users can acquire an authority		
Quit	Quits the communication forcibly		
	→ The capture editing window on all the computers closes forcibly.		
Update	Acquires the latest communication status		
	→ Updates the IP address of the Main PC and Update authorized PC.		

Error information

Network capture function is for projector originally. So some error messages include word "PJ". Here "PJ" means "Monitor".

Error messages	Cause and corresponding	
Set up the parameter.	Error when executing the communication. The parameter setting (host name, capture port) has not been set. → Check parameter setting (☞ p.67)	
It has not been registered to monitor as a group.	Error when executing Start Communication or Start real time capture. The IP address of the computer has not been registered. Register the IP address by using the web browser (\$\sigma\$ p.72)	
Cannot be displayed as monitor is under display.	Error when executing Start Communication or Start real time capture. The other capture, viewer or advanced card imager function is now operating. → Wait until the communication function is available.	
Cannot connect to monitor.	Cannot establish the connection with the network unit when executing the Start communication, End communication, Capture transfer, Start real time capture or End real time capture. The Check connection of the network cable.	
Cannot transfer data to monitor.	Cannot transfer the data to the network unit when executing the Start Communication, End Communication, Capture transfer, Start real time capture or End real time capture. The time out period is 10 seconds. The connection of the network cable.	
Cannot receive data from monitor.	Cannot receive the data from the network unit when executing the Start Communication, End Communication, Capture transfer, Start real time capture or End real time capture. The time out period is 10 seconds. The communication of the network cable.	
Other PC has authority. Cannot complete "Network Communication".	When executing the End communication, you cannot quit the communication because other computer has an authority	
Other PC has authority. Cannot obtain authority.	Other computer has an authority.	
The server name or address could nt be resolved.	When setting the parameter, the computer cannot find the setting host name or IP address in the network. → Use available host name or IP address.	
Invalid port number	When setting the parameter, the reserved port number is specified. → Check parameter setting (☞ p.67)	
Monitor has not started Network Communication. Close the window and open it again.	The monitor might have turned off during the communication. → Check monitor power and restart executing "Start communication".	

Chapter 6 **Network Viewer**

Network Viewer is a function to display the image data stored in the file servers by the monitor through the network.

Describes about file converter software File Converter 1, File Converter 2 and program creator software Program Editor, and how to use Network Viewer.

Creating the available data [Network Viewer 3]

The image available with this monitor is the JPEG format (.jpg). There are several types of JPEG data. Before using the images with the Network Viewer function, it should be converted to the optimized JPEG data for this monitor.

[1] How to use the Network Viewer 3 (File Converter 1)

The File Converter 1 is a software to convert from the JPEG, bitmap or Power Point data to the optimized JPEG data for the monitor.

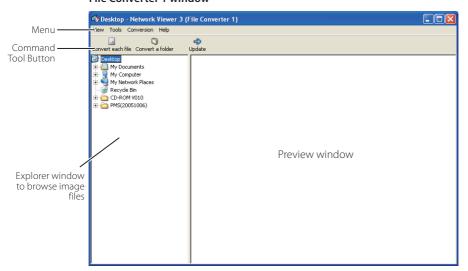
Launch and quit the File Converter 1

To launch the File Converter 1, click "Network Viewer 3 (File Converter 1)" menu from "Start" - "All Programs" - "Network Viewer & Capture 3" menu.

To quit the File Converter 1, click on the close box on the upper right hand of the window.



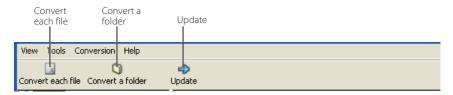
File Converter 1 window



Menu Tree

Menu	Sub Menu	Description
View	— Update	Updates contents of the preview window
_	Preview size	Sets size of the preview image, Large, Middle, Small
Tools —	— Option	Sets default of the output destination and conversion mode
Conversion —	— Convert a folder	Converts files in a folder into JPEG files at once.
L	— Convert each file	Converts a file into a JPEG file individually
Help	 Version information 	Displays the version information

Command Tool Button

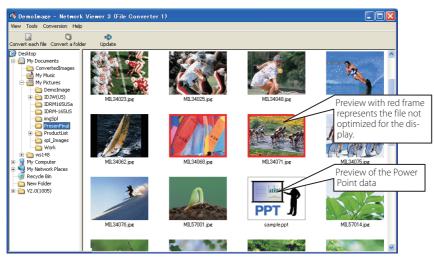


Create the available data

1 Select a folder in which the image files are stored by the explorer window. The preview images of the available image data (JPEG file, Bitmap file, power point file)

in the selected folder are displayed on the preview window.

On the preview window, the preview displayed with the red frame represents a file not optimized JPEG file or Bitmap file for the display. The preview without the red frame represents the optimized JPEG file for the display. So you do not need to convert them again, but if you change the size or image quality, perform to convert them again.



2 When converting each file, select a preview image first and then click **Convert each file**.



To select two or more files at once, press and hold

"Shift" key or "Ctrl" key and then click the preview images.

When converting all the files in a folder, select a folder and click Convert a folder.

- 3 As the confirmation window appears, check the conversion object and conversion type and then click OK button. The File converter 1 starts converting and stores the optimized files into the output folder. It enables you to select a local hard disk of your computer, shared computer in the network, a directory of the FTP server. To change the conversion type or output destination, click Change button.
 - If the power point file is included in the conversion object, the Microsoft Power Point software will be launched and start converting automatically.



Dialog window when using "Convert each file" and "Convert a folder"

To convert images from the power point file, Microsoft Power Point software is required in your computer.

In the power point file conversion, all the pages are converted into JPEG files separately.

Setting of output destination and conversion mode

When clicking **Change** button on the confirmation window in the step 3 on the previous page, following option setting window appears.

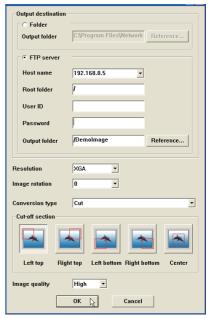
Output destination

Select either **Folder** or **FTP server** as the output destination of the converted files.

Folder

Output folder.....Specify a folder in the local hard disk or shared computer in the network

FTP server



Conversion mode

ResolutionSelects output image resolution (VGA to SXGA+)

The image resolution higher than the monitor's panel resolution cannot be dis-

played.

Image rotation.....Selects image rotation (0, 90, 180, 270). Conversion Type

Justify
[both ends]......Converts as width of the image sets

to be the maximum screen width.

Justify
[top and bottom]..... Converts as height of the image sets
to be the maximum screen height.

Cut......Cuts image with the screen size not depending on the image size. This type has following mode.

Select this mode when you want to have the images with the original size. Select each mode by clicking on the button.

Image Quality....Selects an image conversion quality with "High", "Mid" or "Low".



[2] How to use the Network Viewer 3 (File Converter 2)

The File Converter 2 is a kind of the printer driver software to convert to the optimized JPEG data for the display from the any documents created by the other software such as text editor, spreadsheet or presentation software. It is possible to convert to the JPEG file from the any kinds of documents created by the software which has a "print" menu.

Create the available data

- **1** Open a document with the individual software.
- **2** Select a "Print" sub menu and open the printing dialog. On the window, select "Network Viewer 3 (File Converter 2)" icon on "Select Printer" item and click **Print** button.



Set the option setting for the page layout or paper setting by clicking **Preferences** button if required.

3 Select a folder and click **Save** button.



- The file name is named with "Image001" as the default. If the converted image has 2 or more pages, the file names are numbered from "001" to "999" in a sequential order.
- Image quality and Conversion type can be setup on this window. For further information, please see "Setting of the Conversion Mode" (\$\sigma\$ p.85).
- It may appear the white space around the edges on the converted image depending on the type of the image data.

The above procedure may differ from each computer environment and applications.

Creating a program file [Program Editor]

Network Viewer 3 (Program Editor) is a tool to make a program file which specifies the display order of the image and its file path in the file server (FTP server). The Program Editor makes a folder "DispParam" at the login root directory in the FTP server and makes files as each program name into this folder. These files are called "Program". By specifying the program file with the Network Viewer function, you can have the programmed display with the monitor.

Procedure of making program

- 1 To launch the Program Editor, click "Network Viewer 3 (Program Editor)" menu from "Start" "All Programs" "Network Viewer & Capture 3" menu.
- 2 Click Connect button
- ${\bf 3}$ If the connection setting window appears, enter the each item and then click ${\bf OK}$ button.
 - The setting window disappears and then the programs are listed on the window if there are program files at the login directory in the connected FTP server.

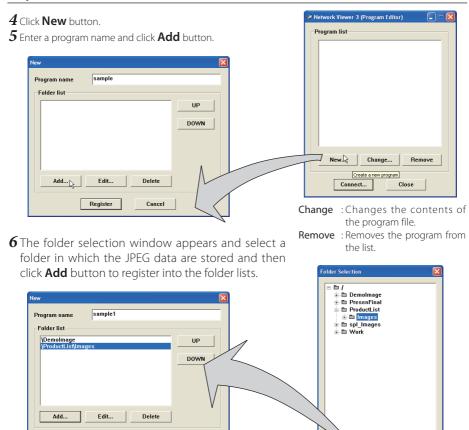




ltem	Description
Host name	Enter the FTP server name or IP address
Root Folder	Specify the root directory of the FTP server. Normally use "/".
User ID	Enter your login account of the FTP sever or use blank when you login as anonymous
	account for the FTP server
Password	Enter your password (PIN code) or use blank when you login as anonymous account

IMPORTANT

It is required to set the write permission mode for the login directory of the FTP server. If only the read only mode, you will have an error when you register a new program.



 $\label{lem:Add.....} \textbf{Add.....} \textbf{Displays the folder selection window.}$

DeleteDeletes the folder path from the folder list.

UP.....Moves up the selected folder path.

Registes

DOWNMoves down the selected folder path.

Edit...... Used to set up the display order or display time of the image individually. For further information see item "Setting up the display order and time of the images" on the next page.

Close

7 Click **Register** button to register the folder list into the program.

8 Click **Close** button to quit the Program Editor.

The order of the display is listed in the folder list window. To change the order of the display, change the list order of the folder list by using **UP** or **DOWN** button.

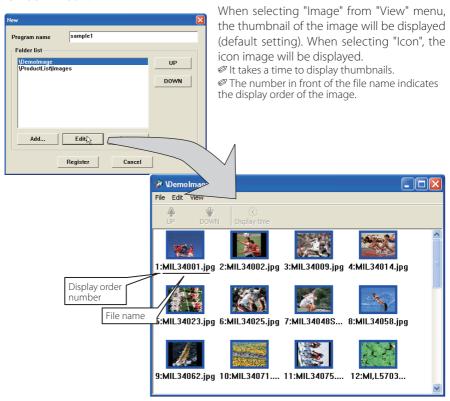
The programs are stored into the "DispParam" folder at the login root directory and this "DispParam" folder is made by software automatically.

Setting up the display order and time of the images

In the default setting, the display order of the images is ASCII code order of the file name. To change the display order or to set up the display time, take the following procedure.

Display the folder list window in step 6 of the previous page.

- 1 Select a folder list contains images to change.
- **2** Click **Edit** button. The images in the selected folder are displayed with the file name on the index window.



Menu	Sub menu	Description
File —	- Exit	Closes index window
Edit —	- UP	Steps up the display order of the selected images
	- DOWN	Steps down the display order of the selected images
	- Display time	Sets up the display time of the selected images
View —	- Image	Displays thumbnail of the images
	- Icon	Displays images as the fixed icons
L	- Update	Updates images information on the index window

- **3** To change the display order, select*1 files and then click **UP** or **DOWN** button on the menu bar to move them onto your desired place, or select files and then drag and drop them onto your desired place with mouse.
- **4** To change the display time*2, select*1 files and then click **Display time** button on the menu bar to display the Display time setting window. Check "Display time" check box and set display time. To cancel the display time, un-check the "Display time" check box.

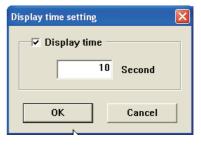
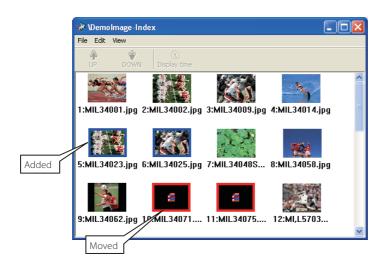


Image frame on the index window

Image frame on the index window has 3 kinds of display modes as follows.

No frame : Shows that the image in the folder is unchanged Blue frame : Shows that image is added into the folder newly Red frame : Shows that image is deleted from the folder

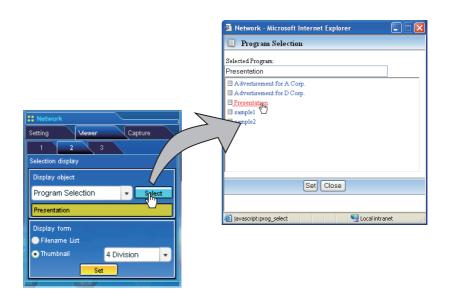


^{*1} Enable to select multiple files at once by using "Shift" or "Control" key, or with mouse cursor.

^{*2} Enable to set up 3 to 240 seconds for display time.

Example of the created program selection

Use the web browser to access to the control page of the monitor. Click **Viewer** of the **Network** menu on the web page, then connect to the FTP server and select the program name which was made at previous section. The monitor starts displaying the images along the program. For further information, please see "Using the Network Viewer function" (\$\sigma\$ p.92).



This function is not available in the light mode.

The limitation of the Program file

There are several limitations for the program file as follows;

- * Number of programs in a root folder is less than 1000.
- * Number of folders in a program is less than 100.
- * Total characters of folder name is less than 255.
- * Total characters of program file name is less than 63.
- * Do not make a program name started with ".".
- * Do not make a program name contained with following characters:

* The program name started with " "(space) is registered with removing the space.

Using the Network Viewer function

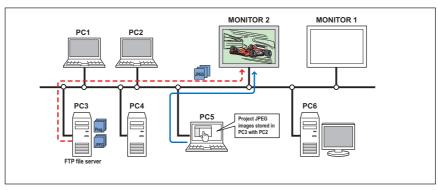
The Network Viewer is a function to acquire the JPEG image data from the file servers placed in the network and display them on the monitor. The displayed image data are specified with the folder unit. You can set the display period and repeating times, and also you can register those folders as the program. *The network viewer function cannot be used when using the network capture function.

Condition to use the Network Viewer function:

- * Enables to use the ETP service with Windows 2000 Professional or XP Professional.
- * User must have a full-access account to the FTP server or the FTP server allows anyone to use with "Anonymous" account which also has a full-access mode.
- * The allowed number of simultaneous access from the same IP address is more than 20.

To use this function, it is necessary to disable "pop-up block" function of the web browser.

Control by the web browser



Select input mode to "Network" previously.

 ${f 1}$ Access to the control page on the monitor by using the web browser.

From the main menu, click **Network - Viewer** to display the setting page.

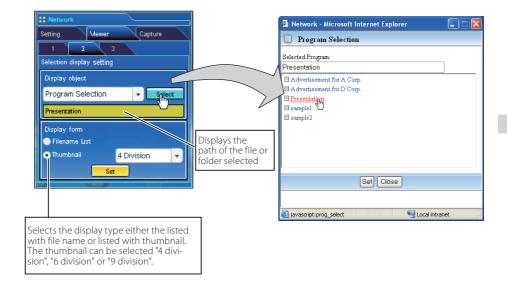
2 Setup the setting page [1] of Image display setting.

Item	Description
Host name	
	yourftp.server etc.
Folder Path	Use "/"(root directory) in normal, or enter the
	directory name follow the "/" as shown in the below example if you have a specified direc- tory in the server.
	/data/
User ID*1	Enter your login account of the FTP server
Password*1	
Option*1	
	acquired preview images on the web browser.



3 Setup the setting page [2] of Selection display setting.

Click **Select** after selecting from the pull-down menu "Folder Selection" or "Program Selection" for the Display object. The list window appears and select a program or folder and then click **Set** on the window.

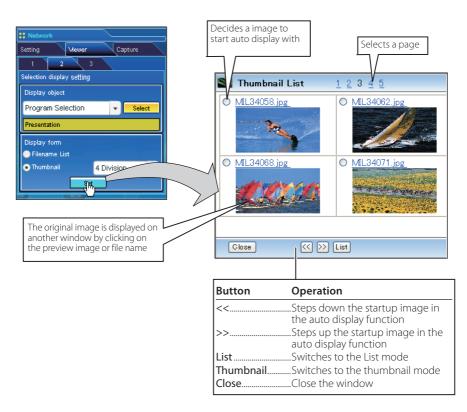


- This function is not available in the light mode.
- See item "Creating a Program file [Program Editor]"(p.87) for about program.

*1 IMPORTANT NOTICE

Please note that if you use the FTP server with personal account except anonymous account, the user ID and password may be displayed on the browser depending on the version of the browser. We recommend that this function should be used with the anonymous account usually.

When clicking **Set**, the file list or preview list of the selected folder or program is displayed on the window.



This function is not available in the light mode.

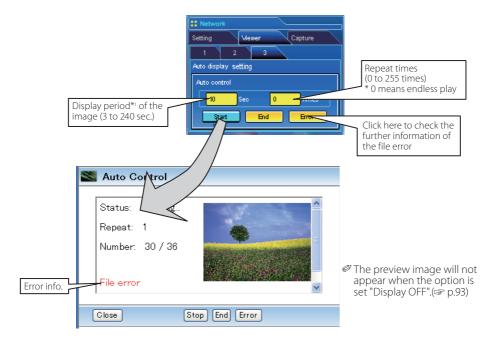
The preview image will not appear when the option is set "Display OFF".(@p.93)

Up to 1000 images can be displayed.

When selecting "folder selection", it displays images placed at the first directory in the selected folder.

The display order of the images is according to the ASCII character order when selecting "folder selection", or is specified by the Program Editor when selecting "program selection".

4 Auto Display setting and control page [3]



- 1. Click **Start** button to start the auto-display. The image in the selected folder or program is displayed on the monitor's screen. The web browser opens another window and displays the preview images on the Auto Control window sequentially.
- 2. Click **Stop** button to stop the auto-display.
 - Restart the auto-display, click **Restart** button.
 - * During the auto-display stops, it enables you to display the images manually by using [<<] or [>>] button.
- 3. Click **End** button to end the auto-display.
 - When pressing the **Error** button, the further information of the file error is displayed.

For further error information, refer to the next page.

^{*1} When selecting the program file for auto-display, the display time of each image gives preference to the setting specified by the program file over the setting specified by the auto-display function above. The images not set the display time is according to the display time specified by the auto-display function above.

The display period is greatly affected by the network environment or the operation of multi control, so it may not display the image as the specified display period.

The switching is not the same timing between the images on the screen and on the web browser.

Error information

Error type	Description	
File Error	It is displayed when the network unit cannot acquire the correct file images from the FTP server, or when the master monitor is turned off during the multi-control. Click Error button to check the details.	
Connection Error	It may be displayed when the slave monitor is using the Network Viewer or Capture function during the multi-control. Check which monitor has an error , see item "Multi Control/Check & Change" (\$\sip\$ p.61-62).	

7

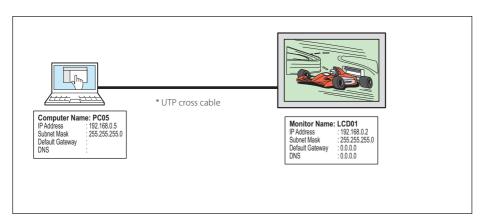
Chapter 7 Appendix

Connection examples
Web browser setting
Technical data
Q & A

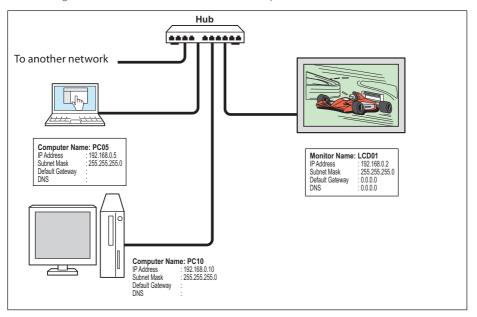
Examples of connection

Peer-To-Peer connection

Connecting the monitor (LCD01) to the control computer (PC05) directly.



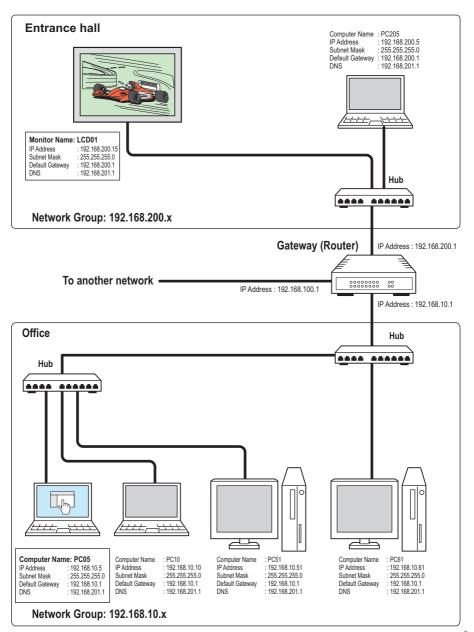
Connecting the monitor (LCD01) to the control computer (PC05) via the hub.



When the monitor is connected to the computer directly without hub, the UTP cross cable should be used.

The gateway (Router) installed in the network

Connecting the monitor (LCD01) to the control computer (PC05) via the gateway.

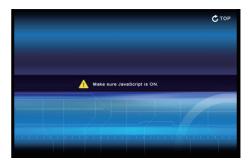


Web browser setting

This product is designed to enable the monitor to be set up and controlled from an Internet web browser. Depending on the preference settings of the web browser, some control functions may not be available. Please make sure that the following functions are set up properly in the web browser.

Active Script/JavaScript enable

There are some control items used with the JavaScript function in the setting pages. If the web browser is set not to use this JavaScript function, it may not control the monitor properly. In this case, the following warning message will be displayed on the top of the page. To enable the JavaScript, please see further instructions on the next page.



Flash Player enable

The setting page of this product contains the Flash contents. To display the setting page, the Adobe Flash Player version 6 or later is required to be installed on your computer. For further product information, see the Adobe homepage. (http://www.adobe.com). Even if your computer provides the Adobe Flash Player and the setting page does not appear on the web browser, check that Flash Player Plug-



In(Shockwave Flash) is installed and set up correctly. please see further instructions on the next page and it is depending on the web browser.

Proxy setting

In some cases, your web browser is set up to use the proxy server for the internet or intranet connection. In this case, when you install this product into the local network, you should set up the proxy setting of web browser preference correctly. Especially when connecting the monitor and computer with a UTP cross cable directly, or when the network does not provide the proxy server, make sure that "not use proxy server" is set up in your web browser preference. Please see item "Examples: OS/Browsers" in the next page for further setting up procedure.

There are various ways to change your browser preferences depending on the version or applications. Please see the setting instructions on next page for example and also refer to on-line help of your web browser.

Examples: OS/Browsers

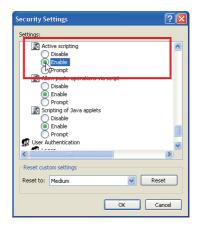
Windows XP Professional

Internet Explorer v.6.0

ActiveScript setting

Select **Internet Options** from **Tools** menu on the web browser and then select **Security** tab and click **Customize Level...** button. On the security setting window, scroll down and find the **Scripting** item, make sure that "Enable" is selected in item **Active Scripting**.





Flash Player enable

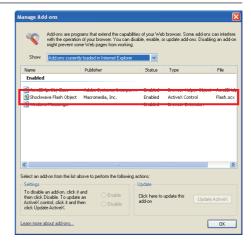
ActiveX controls and plug-ins setting

Select Internet Options from Tools menu on the web browser and then select Security tab and click Customize Level... button. On the security setting window, scroll down and find the ActiveX controls and Plug-ins item, make sure that "Enable" is selected in item Run ActiveX controls and plug-ins.



Flash Player Add-on setting

Select Manage Add-ons... from Tools menu on the web browser. Select "Add-ons currently located in Internet Explorer" from Show pull-down menu. Make sure that the "Shockwave Flash Object" is listed under the item "Fnabled"



Proxy setting

Select Internet Options from Tools menu on the web browser and then select Connection tab and click LAN Settings

button. Properly set up your web browser's the proxy server settings according to the local area network environment to which the monitor is connected.

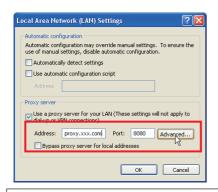
- Using proxy server

To use an external internet connection from the local area network, check the item **Use a proxy server** and enter the proxy server address and port correctly in the proxy settings window. For further instruction please consult your network administrator.

- Not using proxy server

Uncheck the item **Use a proxy server**.

If you connect the monitor to the computer directly with UTP cross cable, this must be unchecked.



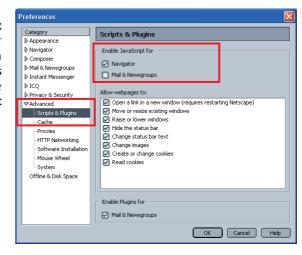
To designate proxy settings that will not use the proxy server when accessing the monitor installed in the local area network, enter the IP address or domain name here.



Netscape Navigator v.7.0

JavaScript Setting

Select Preference from Edit menu on the web browser and then select the item Advanced/Scripts & Plugins in the Category column. Make sure that the Enable JavaScript for Navigator is checked.



Flash Player enable

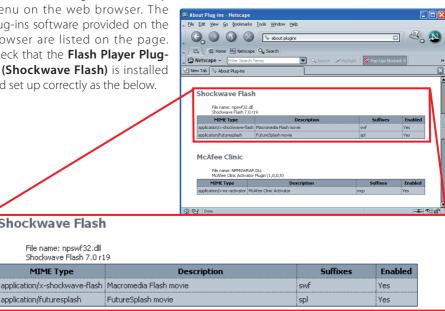
Flash Player Plug-in setting

Shockwave Flash

application/futuresplash

File name: npswf32.dll Shockwave Flash 7.0 r19 MIME Type

Select About:Plug-ins from Help menu on the web browser. The plug-ins software provided on the browser are listed on the page. Check that the Flash Player Plugin (Shockwave Flash) is installed and set up correctly as the below.



Proxy setting

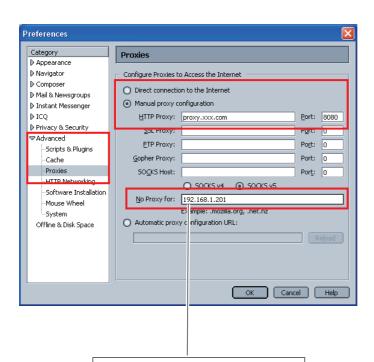
Select **Preference** from **Edit** menu on the web browser and then select the item **Advanced/ Proxies** in the **Category** column. Properly set up your web browser's the proxy server settings according to the local area network environment to which the monitor is connected.

- Using proxy server

When you use an external internet connection from the local area network, select the item **Manual proxy configuration**. Enter the proxy server address and port number correctly on **HTTP Proxy** item. For further instruction please consult your network administrator.

- Not using proxy server

Select the item **Direct connection to the Internet** in the proxy setting window. If you connect the monitor to the computer directly with UTP cross cable, this must be selected.



To designate proxy settings that will not use the proxy server when accessing the monitor installed in the local area network, enter the IP address or domain name here.

Product specification

TypeLD-Net Organizer (network unit)				
LAN interface	. Applicant regulation	IEEE802.3 (10Base-T)		
		IEEE802.3u (100Base-TX)		
	Data transfer speed	10Mbps/100Mbps		
	Data transfer mode	Half duplex/Full Duplex		
	Terminal	8-pin modular (RJ-45)		
Network protocol	TCP/IP specification	TCP/IP		
Power sourceSupplied from the monitor				
Power consumption 3.0 watts				
Dimensions (W x H x D)5.20" x 4.13" x 1.32" (132 x 105 x 33.6 x mm)				
Weight	. 0.57 lbs (258 g)			
Built-in batteryLithium battery, Type CR2032, 3.0V				
Operating temperature41°F \sim 95 °F (5°C \sim 35 °C)				
Storage temperature	. 14°F ~ 140°F (-10°C ~	60°C)		

^{*} The specifications are subject to change without notice.

Port specification

LAN port specification

8-pin modular connector (RJ-45)



Pin No.	Signal	Function
1	TX+	Transfer data (+)
2	TX-	Transfer data (-)
3	RD+	Receive data (+)
4	(not used)	
5	(not used)	
6	RD-	Receive data (-)
7	(not used)	
8	(not used)	

Q&A

Installation/Access

- Why doesn't the setting page appear in my web browser?
- A Following causes are possible. Please check them.
 - 1. The monitor does not connect to the network. Check LED indicators status (@p.17).
 - Check the connection of LAN cable if the LINK indicator does not illuminate red
 - Check the network configuration of the monitor if ACT indicator does not illuminate green.
 - 2. Wrong network configuration of the monitor Check the network configuration of the monitor (\$\sigma\$ p.37).
 - 3. Wrong network configuration of the computer.

 Check the network configuration of the computer.
 - 4. The network unit is used with the default setting (p.21).
 - 5. The proxy setting of the web browser is not set correctly (pp.100).
 - 6. The computer does not provide TCP/IP protocol.
- No setting page in my web browser? Is the problem in the network or in the monitor? I would like to find out the problem whether it is in the network or in the monitor
- **A** Check it by the following steps
 - 1. Disconnect the monitor from the network and connect the monitor and computer with the UTP cross cable directly.
 - Change network configuration of the computer and monitor as shown in the example below.

(Monitor setting)		(Computer setting)
IP Address	: 192.168.0.2	IP Address	: 192.168.0.5
Subnet Mask	: 255.255.255.0	Subnet Mask	: 255.255.255.0
Default gateway	: 0.0.0.0	Default gateway	: (blank)
DNS	: 0.0.0.0	DNS	: (blank)

- 3. Enter the monitor's IP address [192.168.0.2] at "Address" column on the Web browser. [Note] Make sure that the proxy setting of your web browser is set "Not use a proxy server" (\$\sigma\$ p.100).
- 4. If the login page appears, this product is operating properly. The problems may be in the network configuration of the computer or in the network. Please try to set up the network by following item "Network configuration" (\$\sigma\$ p.21). If the login page does not appear, please check for proper mounting of this product onto the monitor by referring to chapter "Installation and Network configuration" (\$\sigma\$ p.18-19).
- Q How can I restrict access from the computer.
- A 1. Please use the password authentication function on the login page (p.30).
 - 2. Please use the IP filtering function provided with the gateway (router) to restrict the accessing from the computer. For further information please consult your network administrator.
- Can I access the monitor installed on the company's local area network from a remote location?
- **A** There are some ways to access to the monitor in the LAN, but you must consult your network administrator for security reason.
 - □ Use of modem
 - (Connect to the company's network from your home or some other places by using modem.)
 - Use of private line
 - (Connect to the company's network from the branch office or maintenance office by using private line.)
 - - (Connect to the company's network from your home, branch office or some other places by using the internet.)
- We use the DHCP/BOOTP server to assign the IP address. Is it possible to use the network unit in this network environment?
- A Possible. As the network unit does not support the DHCP/BOOTP server, the fixed IP address must be configured manually. Please consult your network administrator (\$\sigma\$ p.25).

- Q How can I install several monitors equipped with the network unit?
- A Install and configure network one by one to avoid the IP address collision each other (@p.25).

To configure the IP address please see item "Network configuration" (p.21).

- How many monitors can I control with multi-control function?
- **A** It has been designed to control up to 100 sets but it depends on the network environment.

Password/Login

- Q What should I do when I forget the password?
- A If you forget the Network PIN code to the monitor, you can initialize PIN code and IP Address/Sub net/Gateway/DNS by selecting "Network initial" from "Installation mode" menu on the monitor. For further information, please see instruction manual of the monitor.
- Can I register the setting page as a web browser "Favorites" or "Bookmarks"?
- A Please add "Login" page to your "Favorites" or "Bookmarks". Do not add the specified setting page because it will not be able to perform the password authentication correctly.

Operation

- Why can't I change the controls in the setting page with web browser?
- A Please make sure the monitor is turned on. If it is in the standby mode, the setting is not effective to the monitor. To control the monitor with a web browser, the monitor must be in the powered-on condition. Also, monitors registered for multi-control cannot have any controls changed if they are in standby mode. But timer and clock settings are always effective, even for monitors in standby mode.
- **Q** Why does it sometimes take a lot of time to complete the page display?
- A The display speed of the page depends on the network environment in which both the monitor and computer are placed. It may take much time to complete the page display if network traffic is heavy. Please consult your network administrator. You can select the Light mode for displaying pages quickly (\$\sigma\$ p.30).
- I use many of the monitors in the network. How can I use names of the monitors to recognize each monitor instead of IP addresses?
- You can manage the monitors with nicknames instead of the IP address. Please see item "Multi-control" for further information (\$\sigma\$ p.59).

 By registering the monitor name and IP address with the DNS server, it can be accessed with the nickname from the any computer referred to the DNS server. Please consult your network administrator.
- How many numbers of the E-mail address can I register in the E-mail setting page.
- A You can register up to 10 addresses.

Q Why am I not receiving E-mail alert messages?



Make sure that the registered E-mail address and SMTP server address are correct. If the SMTP server is located in your LAN (Local Area network), the address should be set to the SMTP server in your LAN. The SMTP server located outside of your LAN may not be available for security reason. For further information please contact your network administrator (p.38).

It may be required for the authentication depending on the SMTP server. This product does not support this kind of SMTP server.

Q Can I update the firmware of the network unit.

It is possible to update the firmware through the network. It is required to have a special tool for the updating. For further information please consult your local dealer. The version number of the firmware is indicated on the lower part of the "Initial setting" page.



Q What are the rules for IP address assignment?

A

If the network is constructed with TCP/IP protocol, a unique IP address is required for each piece of network equipment. The following are basic rules of the assignment.

Rule1

Do not configure the same IP address to the network equipment in the same network group. Each piece of equipment must be assigned a unique IP address.

If the IP address is set [192.168.x.x], the Subnet Mask should be set [255.255.255.0] for example.

Rule2

The start address [xxx.xxx.xxx.0] and the last address [xxx.xxx.xxx.255] of the IP address must not be assigned to any other equipment. These address numbers are reserved.

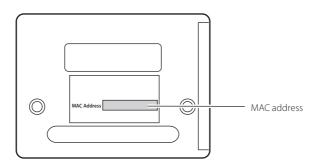
Rule3

The IP address must correlate to a network number. If network numbers are different between the equipment, they cannot establish communications each other. In this case, the router is placed in the networks to make the routing.

Q What is the MAC address assigned to the network unit?

Α

The MAC address is indicated on the case back as the below.



Network capture

Q Why doesn't the computer screen appear on the monitor?

- Α
- 1. Make sure that the input mode of the monitor is "Network".
- 2. Make sure that the Network Capture icon on the task bar of the computer is active (\$\sip\$ p.66).
- 3. Check the parameter set up (p.67).

 Make sure that the numbers of the capture port is the same as the monitor's port number. The default port number is 9000. If the alert message "Invalid Port No." appears, your computer may be using this port number already. In this case, use another port number.
- 4. Check the IP address of the computer is registered to the network unit correctly (\$\infty\$ p. 68).
- 5. Make sure that your computer is not using the firewall function. The network unit may not be able to use the port due to this firewall function. In this case, please turn off this function temporarily. There are also some port limitations on the network equipment such as router. Please consult your network administrator.

Network Viewer

Q Images from the file server don't appear on the monitor?

- Α
- 1. Make sure that the input mode of the monitor is "Network".
- 2. Check the account setting of the FTP server (p.93).
- 3. The files in the FTP server must be optimized JPEG and converted by using the File Converter 1 or 2. Please check data format. (== p.83)
- 4. There are several limitations for image file name and program name. Please check file names and program names (\$\sigma\$ p.91).
- 5. Make sure that your computer is not using the firewall function. The network unit may not be able to use the port due to this firewall function. In this case, please turn off this function temporarily. There are also some port limitations on the network equipment such as router. Please consult your network administrator.
- I cannot make a new program file.
- A Check your account of the FTP server. You must have a mode "Write enable" for its account.(\$\sigma\$ p.87)

File Converter 1

Q What kind of image formats can I convert?

The File Converter 1 enables to convert to the JPEG format from the following image format.

Bitmap format (.bmp)

JPEG format (.jpeg .jpg)

Microsoft power point format (.ppt)

File Converter 2

Sometime I have the white frame images converted by the File Converter 2?

A It may have images with white frame due to the paper margin of the print driver depending on the image data.

